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1 A structured approach to instrumentation system development and e
 Abdul Waheed, Diane T. Royer

 December 1995 **Supercomputing '95: Proceedings of the 1995 ACM/IEEE (CDROM)**
Publisher: ACM

 Full text available: [HTML](#) (82.04 KB)

 Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 62, Download

Software instrumentation is a widely used technique for parallel program steering, and visualization. With increasing sophistication of parallel tool broadening of application areas where ...

Keywords: instrumentation systems, software monitoring, parallel program modeling, perturbation, performance analysis

2 Using selective discard to improve real-time video quality on an ether

Yantian Della Torre Lu, Kenneth J. Christensen

 March 1999 **International Journal of Network Management**, Volume 9 Issue 1

Publisher: John Wiley & Sons, Inc.

 Full text available: [PDF](#) (1.44 MB)

 Additional Information: [full citation](#), [abstract](#)
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To support real-time MPEG video on Ethernet, a selective discard scheme loss of more important MPEG "I" frames for less important "B" frames. S quality. Copyright ...

3 The performance of TCP/IP for networks with high bandwidth-delay p

T. V. Lakshman, Upamanyu Madhow

 June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5

Publisher: IEEE Press

 Full text available: [PDF](#) (390.77 KB)

 Additional Information: [full citation](#), [reference](#)
Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 128, Download

Keywords: TCP/Ip, congestion control, error recovery, flow control, inte

External memory algorithms and data structures: dealing with mass

Jeffrey Scott Vitter

June 2001 Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Request Permissions

Full text available: [PDF \(828.46 KB\)](#)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 108, Downloads (12 Months): 865, Download links

Data sets in large applications are often too massive to fit completely in memory, so external memory algorithms and data structures must be used. The resulting input/output communication (or I/O) between fast internal memory and slower disks can be a major performance bottleneck.

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hash index, external memory, multidimensional access methods, multilevel memory, online, cache, streaming, tree

5 H-RMC: a hybrid reliable multicast protocol for the Linux kernel

Philip K. McKinley, Ravit Rao, Robin F. Wright

January 1999 Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: [PDF \(493.98 KB\)](#)

Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 10, Download links

6 Balancing performance and flexibility with hardware support for network protocols

Ilija Hadžić, Jonathan M. Smith

November 2003 Transactions on Computer Systems (TOCS), Volume 21 Issue 4

Publisher: ACM Request Permissions

Full text available: [PDF \(719.03 KB\)](#)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 104, Download links

The goals of performance and flexibility are often at odds in the design of network protocols. It is not uncommon enough to justify an architectural solution, rather than a set of ad-hoc solutions, to support both. The Programmable Protocol Processing Pipeline is one such solution.

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable networks, protocol processing

7 Cost-effective streaming server implementation using Hi-tactix

Damien Le Moal, Tadashi Takeuchi, Tadaaki Bandoh

December 2002 MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM Request Permissions

Full text available: [PDF \(271.85 KB\)](#)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 28, Download links

High performance and high quality for continuous media stream delivery cannot be achieved efficiently using general-purpose operating systems, which have mechanisms designed for sequential access. A new mechanism implementation generally used. ...

Keywords: audio/video streaming, operating system, quicktime, real-time, streaming

8 Warehousing and mining Web logs

 Karuna P. Joshi, Anupam Joshi, Yelena Yesha, Raghu Krishnapuram
November 1999 **WIDM '99: Proceedings of the 2nd international workshop management**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(1.66 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 132, Download

Analyzing Web Logs for usage and access trends can not only provide information to web developers and administrators, but also help in creating adaptive web sites that generate fixed reports from web ...

Keywords: Web logs, Web mining, ad hoc analysis, clustering, user inten

9 Optimizing TCP forwarder performance

Oliver Spatscheck, Jørgen S. Hansen, John H. Hartman, Larry L. Peterson
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Publisher: IEEE Press

Full text available:  [Pdf \(119.23 KB\)](#)

Additional Information: [full citation](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Download

Keywords: TCP, firewall, proxy, router

10 Start-time fair queueing: a scheduling algorithm for integrated services

Pawan Goyal, Harrick M. Vin, Haichen Cheng
October 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5

Publisher: IEEE Press

Full text available:  [Pdf \(431.62 KB\)](#)

Additional Information: [full citation](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 82, Download

Keywords: fair queueing, integrated services networks, packet scheduling

11 Web application security assessment by fault injection and behavioral analysis

 Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai
May 2003 **WWW '03: Proceedings of the 12th international conference on the World Wide Web**

Publisher: ACM

Full text available:  [Pdf \(4.53 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 79, Downloads (12 Months): 735, Download

As a large and complex application platform, the World Wide Web is capable of supporting sophisticated applications. However, many Web applications go through extremely short turnaround time, making it difficult ...

Keywords: black-box testing, complete crawling, fault injection, security

12 A game-theoretic approach towards congestion control in communication networks

 Rahul Garg, Abhinav Kamra, Varun Khurana
July 2002 **SIGCOMM Computer Communication Review**, Volume 32 Issue 3

Publisher: ACM

Full text available: Pdf (379.11 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 80, Download Rank: 1000

Most of the end-to-end congestion control schemes are "voluntary" in nature. We show that in the presence of selfish users, all such schemes will collapse. Router and switch ...

Keywords: DWS, GPS, RIS, TCP, congestion control, fairness, game theory, equilibrium, scheduling, stackelberg equilibrium

13 Experiments in Composing Proxy Audio Services for Mobile Users

Philip K. McKinley, Udayan I. Padmanabhan, Nandagopal Ancha

November 2001 **Middleware '01: Proceedings of the IFIP/ACM International Conference on Platforms Heidelberg**

Publisher: Springer-Verlag

Full text available: Pdf (809.23 KB)

Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 9, Download Rank: 1000

14 Fluid simulation: discrete event fluid modeling of TCP

David M. Nicol

December 2001 **WSC '01: Proceedings of the 33rd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available: Pdf (151.17 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 18, Download Rank: 1000

The bulk of Internet traffic is carried using variants of the TCP protocol. / study of any distributed application run over the Internet (e.g. reliable message delivery) and the impact that TCP background ...

15 Application level hand-off support for mobile media transcoding sessions

Sumit Roy, Bo Shen, Vijay Sundaram, Raj Kumar

May 2002 **NOSSDAV '02: Proceedings of the 12th international workshop on support for digital audio and video**

Publisher: ACM

Full text available: Pdf (222.88 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 20, Download Rank: 1000

Media transcoding can be used to enable mobile devices that have low bandwidth access content created for stationary, desktop clients with high bandwidth servers near the edge of ...

Keywords: hand-off, mobility, transcoding

16 Multidimensional access methods

Volker Gaede, Oliver Günther

June 1998 **Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM

Full text available: Pdf (1.05 MB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 64, Downloads (12 Months): 510, Download links (Never): 0

Search operations in databases require special support at the physical level. In fact, in databases as well as spatial databases, where typical search operations involve queries that contain ...

Key words: data structures, multidimensional access methods

- 17** [TCP westwood: Bandwidth estimation for enhanced transport over wireless networks](#)

Saverio Mascolo, Claudio Casetti, Mario Gerla, M. Y. Sanadidi, Ren Wang
July 2001 **MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Request Permissions

Full text available: Pdf (344.76 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 207, Download links (Never): 0

TCP Westwood (TCPW) is a sender-side modification of the TCP congestion control algorithm that improves the performance of TCP Reno in wired as well as wireless networks. The algorithm is designed to work in environments with lossy links, ...

- 18** [Tarzan: a peer-to-peer anonymizing network layer](#)

Michael J. Freedman, Robert Morris
November 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM Request Permissions

Full text available: Pdf (242.72 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 136, Download links (Never): 0

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides anonymity without requiring users to trust a central authority, it is purpose and transparent to applications. Organized as a decentralized peer-to-peer system, Tarzan is highly tolerant, highly scalable, and easy to ...

Key words: IP tunnels, anonymity, cover traffic, distributed trust, mix-nodes

- 19** [Logical and physical design issues for smart card databases](#)

Cristiana Bolchini, Fabio Salice, Fabio A. Schreiber, Letizia Tanca
July 2003 **Transactions on Information Systems (TOIS)**, Volume 21 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (1.12 MB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 154, Download links (Never): 0

The design of very small databases for smart cards and for portable embedded systems must take into account the peculiar features of the physical medium. We propose a joint approach to the logical and physical design phases and evaluate several ...

Key words: Design methodology, access methods, data structures, flash memory, smart card

◆ OS and compiler considerations in the design of the IA-64 architecture
Rumi Zahir, Jonathan Ross, Dale Morris, Drew Hess
December 2000 **ASPLOS-IX: Proceedings of the ninth international conference on programming languages and operating systems**

Publisher: ACM  Request Permissions

Full text available:  Pdf (96.50 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 31, Download History

Increasing demands for processor performance have outstripped the pace of microprocessor improvements, pushing designers to find ways of increasing the amount of parallelism. Traditional RISC architectures use hardware ...

Also published in:

December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5

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